

Specification No. 130045

Rev.00-12/2025

Amaranth Seed

Plant-based protein

Amaranth is Amaranthus caudatus from the family Amaranthaceae.

Product

This beautiful colored plant is a native cereal from Peru and grows at altitudes between 1,000 and 3,200 meters above sea level. Amaranth contains all essential amino acids required by the human body, especially lysine and methionine. The grain contains more than 13% protein, and the levels of phosphorus, calcium, magnesium, and potassium are generally higher than those found in common cereals.

This product does not contain saponins or alkaloids.

Sensory Characteristics

Appearance/Color	Ivory / Pale Yellow
Odor	Typical, without any off-odor
Flavor	Sweet and nutty

Physical Characteristics

Purity	99.97%
Admixture	0.03%
Foreign Material	Free from glass, stones, plastic, and wood

Microbiological Characteristics

Salmonella	Absent / 25 g
E. coli	Absent / g
Total Plate Count	< 500,000 cfu/g
Coliforms	< 10,000 cfu/g
Yeast & Mould	< 5,000 cfu/g

Nutritional Facts (per 100 g)	Value	Unit
Energy	372	kcal
Protein	13-15	g
Total Fat	5.69	g
Saturated Fatty Acids	1.50	g
Monounsaturated Fatty Acids	1.42	g
Polyunsaturated Fatty Acids	2.49	mg/kg
Total Carbohydrates	62.48	g
Dietary Fibre	7.50	g

Production Process

- Raw material
- Mechanical cleaning (pre-cleaning, aspiration, classifier cleaning, de-stoning & gravity separation)
- Color sorting
- Metal separation (CCP)
- Packing

This information is based on our current level of knowledge. However, it does not constitute a guarantee of specific product properties nor does it establish any contractual legal relationship. We kindly ask you to verify the effectiveness and compatibility of our products on your own responsibility and to ensure that no patents or other third-party property rights are infringed. This product information is not updated automatically.

Equipment / technical parameters:

- Pre-cleaner: Top screen 1.5 mm × 20 mm, bottom screen 20 mesh
- Cleaner classifier: Top screen 1.75 mm, bottom screen 2 mm
- Magnets: 10,000–12,000 gauss
- Metal detector: FE – 0.8 mm, NFE – 1.0 mm, SS – 1.2 mm

Food Safety in Processing / Storage / Transport / Packing

- Handling, processing, storage, and transport take place under hygienic conditions appropriate for foodstuffs.
- Means of transport are clean, dry, and free of any foreign odors.
- Packaging is suitable for food use.

GMO Status

The product complies with EU & USA regulations and is not produced using GMO materials.

Ionizing Radiation

The product is not treated with ionizing radiation.

Heavy Metals

The product complies with EU & USA regulations for maximum residue limits for specific contaminants

Storage / Shelf Life

- Storage conditions: cool, dark, and dry (<65% relative humidity).
- Shelf life: 12 months in sealed original packaging under proper storage and transport conditions.

Suitability

Product is suitable for vegetarians (no ingredients containing meat are used). Additional suitability testing (e.g., vegan) is not carried out.

Packaging

- 22.68 kg / 50 lbs net or gross multiwall paper bags / custom size
- 25 kg / 55.11 lbs net or gross multiwall paper bags / custom size
- 750 / 850 / 1000 kg FIBC jumbo bags

Pest Control

Warehouse and production facilities must be protected against infestation through professional pest control measures.

Retained Sample

For each delivered lot, a 450 g sample must be retained by the buyer for the entire shelf life. It must be stored in a manner suitable to protect it from infestation and deterioration.

Allergens

- contains no allergens,
- is not produced on lines using allergens,
- is not produced in facilities handling allergens.

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